Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-11-29-07** **Date: 04-12-17**
Customer	:	Assistant Executive Engineer, T. Dasarahalli Sub division, BBMP, Bangalore.
Address	:	T. Dasarahalli Sub division, BBMP, Bangalore.
Project Name	:	Improvements to RCC drains and covering slab at Kalashrinagara cross roads 3rd, 4th, 5th, 6th, in Ward no.15 T. Dasarahalli
Agency	:	Technical Manager (West), KRIDL, Project Implementationunit, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
Customer's Reference	:	BBMP/EE/DD/WO/75/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-11-17
Sample ID No	:	2017-11-29-07 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	30-11-17
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.12	–
2	Finess by Air permeablity method (m^2/kg,Min)	271.6	225m^2/kg, Min
3	Density (gm/cc)	3.13	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	185 minutes	Not less than 30 minutes
6	Final Setting time	290 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-11-29-07** **Date: 28-12-17**
Customer	:	Assistant Executive Engineer, T. Dasarahalli Sub division, BBMP, Bangalore.
Address	:	T. Dasarahalli Sub division, BBMP, Bangalore.
Project Name	:	Improvements to RCC drains and covering slab at Kalashrinagara cross roads 3rd, 4th, 5th, 6th, in Ward no.15 T. Dasarahalli
Agency	:	Technical Manager (West), KRIDL, Project Implementationunit, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
Customer's Reference	:	BBMP/EE/DD/WO/75/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-11-17
Sample ID No	:	2017-11-29-07 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	30-11-17
Environmental Conditions during test	:	Temperature: 26˚C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	55.0N/mm^2	Not less than 53 N/mm^2

Note:
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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-11-29-07** **Date: 01-12-17**
Customer	:	Assistant Executive Engineer, T. Dasarahalli Sub division, BBMP, Bangalore.
Address	:	T. Dasarahalli Sub division, BBMP, Bangalore.
Project Name	:	Improvements to RCC drains and covering slab at Kalashrinagara cross roads 3rd, 4th, 5th, 6th, in Ward no.15 T. Dasarahalli
Agency	:	Technical Manager (West), KRIDL, Project Implementationunit, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
Customer's Reference	:	BBMP/EE/DD/WO/75/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-11-17
Sample ID No	:	2017-11-29-07 /04
Sample Type	:	Kamadhenu
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	30-11-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Kamadhenu	Fe500	8	0.394	529	672	21.0%	Satisfactory	Satisfactory
2	Kamadhenu	Fe500	10	0.613	542	685	20.0%	Satisfactory	Satisfactory
3	Kamadhenu	Fe500	12	0.883	562	692	20.0%	Satisfactory	Satisfactory

Note:

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2017-11-29-07** **Date: 04-12-17**

Customer : Assistant Executive Engineer, T. Dasarahalli Sub division, BBMP, Bangalore.

Address : T. Dasarahalli Sub division, BBMP, Bangalore.

Project Name : Improvements to RCC drains and covering slab at Kalashrinagara cross roads 3rd, 4th, 5th, 6th, in Ward no.15 T. Dasarahalli

Agency : Technical Manager (West), KRIDL, Project Implementationunit, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/DD/WO/75/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-11-17

Sample ID No : 2017-11-29-07 /05

Sample Type /Size : Precast Cover Slab

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 30/11/2017

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.41	100.25	1.316	4465	100.9	22.6	21.0	26.3
2	Cover Slab-2	75.49	100.44	1.322	4475	101.3	22.6	21.1	26.3
3	Cover Slab-3	75.32	100.27	1.358	4455	96.5	21.7	20.1	25.2

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-12-09-08** **Date: 14/12/2017**

Customer : Assistant Executive Engineer, T. Dasarahalli Sub division, BBMP, Bangalore.

Address : T. Dasarahalli Sub division, BBMP, Bangalore.

Project Name : Improvements to RCC drains and covering slab at Kalashrinagara cross roads 3rd, 4th, 5th, 6th, in Ward no.15 T. Dasarahalli

Agency : Technical Manager (West), KRIDL, Project Implementationunit, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/DD/WO/75/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 09-12-17

Sample ID No : 2017-12-09-08 /01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/12/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	07/12/2017	14/12/2017	149.48 X 150.77 X 148.56	22537	8.271	365.1	16.2	16.4
2	Drain Concrete	M20	07/12/2017	14/12/2017	151.82 X 151.58 X 149.47	23013	8.194	377.4	16.4	
3	Drain Concrete	M20	07/12/2017	14/12/2017	151.63 X 149.81 X 150.32	22716	8.266	379.4	16.7	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-12-09-08** **Date: 04/01/2018**

Customer : Assistant Executive Engineer, T. Dasarahalli Sub division, BBMP, Bangalore.

Address : T. Dasarahalli Sub division, BBMP, Bangalore.

Project Name : Improvements to RCC drains and covering slab at Kalashrinagara cross roads 3rd, 4th, 5th, 6th, in Ward no.15 T. Dasarahalli

Agency : Technical Manager (West), KRIDL, Project Implementationunit, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/DD/WO/75/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 09-12-17

Sample ID No : 2017-12-09-08 /02

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/01/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	07/12/2017	04/01/2018	151.36 X 149.84 X 150.31	22680	8.268	494.4	21.8	22.4
2	Drain Concrete	M20	07/12/2017	04/01/2018	151.89 X 151.29 X 148.10	22979	8.189	526.2	22.9	
3	Drain Concrete	M20	07/12/2017	04/01/2018	151.21 X 150.82 X 148.47	22805	8.258	513.1	22.5	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-12-09-08** **Date: 14/12/2017**

Customer : Assistant Executive Engineer, T. Dasarahalli Sub division, BBMP, Bangalore.

Address : T. Dasarahalli Sub division, BBMP, Bangalore.

Project Name : Improvements to RCC drains and covering slab at Kalashrinagara cross roads 3rd, 4th, 5th, 6th, in Ward no.15 T. Dasarahalli

Agency : Technical Manager (West), KRIDL, Project Implementationunit, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/DD/WO/75/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 09-12-17

Sample ID No : 2017-12-09-08 /01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/12/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	07/12/2017	14/12/2017	150.77 X 149.45 X 148.83	22533	8.229	389.8	17.3	17.1
2	Drain Concrete	M20	07/12/2017	14/12/2017	151.28 X 150.52 X 149.68	22771	8.196	380.3	16.7	
3	Drain Concrete	M20	07/12/2017	14/12/2017	151.89 X 150.67 X 149.51	22885	8.247	393.6	17.2	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-12-09-08** **Date: 14/12/2017**

Customer : Assistant Executive Engineer, T. Dasarahalli Sub division, BBMP, Bangalore.

Address : T. Dasarahalli Sub division, BBMP, Bangalore.

Project Name : Improvements to RCC drains and covering slab at Kalashrinagara cross roads 3rd, 4th, 5th, 6th, in Ward no.15 T. Dasarahalli

Agency : Technical Manager (West), KRIDL, Project Implementationunit, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/DD/WO/75/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 09-12-17

Sample ID No : 2017-12-09-08 /01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/12/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	07/12/2017	14/12/2017	150.77 X 149.45 X 148.83	22533	8.229	389.8	17.3	17.1
2	Drain Concrete	M20	07/12/2017	14/12/2017	151.28 X 150.52 X 149.68	22771	8.196	380.3	16.7	
3	Drain Concrete	M20	07/12/2017	14/12/2017	151.89 X 150.67 X 149.51	22885	8.247	393.6	17.2	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-12-09-08** **Date: 04/01/2018**

Customer : Assistant Executive Engineer, T. Dasarahalli Sub division, BBMP, Bangalore.

Address : T. Dasarahalli Sub division, BBMP, Bangalore.

Project Name : Improvements to RCC drains and covering slab at Kalashrinagara cross roads 3rd, 4th, 5th, 6th, in Ward no.15 T. Dasarahalli

Agency : Technical Manager (West), KRIDL, Project Implementationunit, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/DD/WO/75/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 09-12-17

Sample ID No : 2017-12-09-08 /02

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/01/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	07/12/2017	04/01/2018	148.44 X 149.73 X 150.84	22226	8.177	471.2	21.2	21.0
2	Drain Concrete	M20	07/12/2017	04/01/2018	151.89 X 148.58 X 149.62	22568	8.159	469.4	20.8	
3	Drain Concrete	M20	07/12/2017	04/01/2018	150.37 X 151.73 X 149.95	22816	8.207	481.4	21.1	

Note:

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-12-09-08** **Date: 14/12/2017**

Customer : Assistant Executive Engineer, T. Dasarahalli Sub division, BBMP, Bangalore.

Address : T. Dasarahalli Sub division, BBMP, Bangalore.

Project Name : Improvements to RCC drains and covering slab at Kalashrinagara cross roads 3rd, 4th, 5th, 6th, in Ward no.15 T. Dasarahalli

Agency : Technical Manager (West), KRIDL, Project Implementationunit, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/DD/WO/75/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 09-12-17

Sample ID No : 2017-12-09-08 /01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/12/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	07/12/2017	14/12/2017	151.28 X 150.33 X 150.49	22742	8.197	393.4	17.3	17.0
2	Drain Concrete	M20	07/12/2017	14/12/2017	150.64 X 150.33 X 149.78	22646	8.153	394.0	17.4	
3	Drain Concrete	M20	07/12/2017	14/12/2017	151.22 X 150.47 X 150.98	22754	8.165	373.2	16.4	

Note:

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-12-09-08** **Date: 04/01/2018**

Customer : Assistant Executive Engineer, T. Dasarahalli Sub division, BBMP, Bangalore.

Address : T. Dasarahalli Sub division, BBMP, Bangalore.

Project Name : Improvements to RCC drains and covering slab at Kalashrinagara cross roads 3rd, 4th, 5th, 6th, in Ward no.15 T. Dasarahalli

Agency : Technical Manager (West), KRIDL, Project Implementationunit, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/DD/WO/75/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 09-12-17

Sample ID No : 2017-12-09-08 /02

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/01/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	07/12/2017	04/01/2018	149.87 X 151.64 X 150.97	22726	8.210	502.3	22.1	21.5
2	Drain Concrete	M20	07/12/2017	04/01/2018	150.21 X 150.47 X 150.67	22602	8.198	467.9	20.7	
3	Drain Concrete	M20	07/12/2017	04/01/2018	150.11 X 150.49 X 150.37	22590	8.147	490.2	21.7	

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Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-12-09-08** **Date: 14/12/2017**

Customer : Assistant Executive Engineer, T. Dasarahalli Sub division, BBMP, Bangalore.

Address : T. Dasarahalli Sub division, BBMP, Bangalore.

Project Name : Improvements to RCC drains and covering slab at Kalashrinagara cross roads 3rd, 4th, 5th, 6th, in Ward no.15 T. Dasarahalli

Agency : Technical Manager (West), KRIDL, Project Implementationunit, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/DD/WO/75/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 09-12-17

Sample ID No : 2017-12-09-08 /01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/12/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	07/12/2017	14/12/2017	149.54 X 150.55 X 150.28	22513	8.196	378.2	16.8	16.8
2	Drain Concrete	M20	07/12/2017	14/12/2017	150.65 X 150.53 X 151.05	22677	8.276	374.2	16.5	
3	Drain Concrete	M20	07/12/2017	14/12/2017	150.86 X 149.22 X 150.83	22511	8.153	384.9	17.1	

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ಟಿ.ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ
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Quality Manager

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Customer's Reference : BBMP/EE/DD/WO/75/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 09-12-17

Sample ID No : 2017-12-09-08 /02

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/01/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	07/12/2017	04/01/2018	150.32 X 150.42 X 150.22	22611	8.155	468.1	20.7	21.0
2	Drain Concrete	M20	07/12/2017	04/01/2018	150.76 X 149.20 X 149.66	22493	8.165	479.1	21.3	
3	Drain Concrete	M20	07/12/2017	04/01/2018	150.54 X 150.28 X 151.01	22623	8.154	477.3	21.1	

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